

WHAT IS CLAIMED IS:

1. A handheld water spraying device having a quick disconnect assembly for releasably securing the device to a flexible water line, said device comprising:

a spray body having a water inlet end and a water outlet end;

a valve mechanism carried by said spray body for the selective passage of water therethrough;

a nozzle assembly adapted to be fixed to the water line and releasably secured in said spray body for the passage of water from said line into said body, said nozzle assembly including a pair of opposed radially projecting wing portions;

a pair of opposed seats formed in said spray body for receiving said wing portions of said nozzle assembly and preventing rotation of said wing portions with respect to said spray body;

biasing means disposed within said spray body for urging said wing portions into and against said seats; and

an elongated opening formed in said spray body proximate said inlet end thereof for the passage of said nozzle assembly therethrough upon said wing portions thereof being aligned with said opening, said opening being aligned transversely with respect to said seats such that upon urging the water line and affixed nozzle assembly inwardly within said spray body against said biasing means so as to raise said wing portions off said seats and then rotating the line and affixed

nozzle assembly approximately 90° with respect to said spray body so as to align said wing portions with said opening, said line and nozzle assembly can be axially withdrawn from said spray body thereby disengaging said spray body from the line.

2. The spraying device of claim 1 wherein said nozzle assembly includes a nozzle having a water flow passageway extending axially therethrough and a washer rotatably mounted on said nozzle, said wing portions of said nozzle assembly being defined by said washer.

3. The spraying device of claim 1 wherein said nozzle assembly includes a nozzle having a water flow passageway extending axially therethrough and wherein said wing portions of said assembly are carried by and rotatable with respect to said nozzle such that upon said nozzle being secured in said spray body with said wing portions in said seats, said spray body is rotatable with respect to said nozzle whereby twisting of the water line during use is avoided.

4. The spraying device of claim 1 including a plurality of axially extending ribs formed on opposed interior sides of said spray body and a pair of opposed arcuate ribs transversing and cooperating with said axially extending ribs so as to define said nozzle seats and said transversely disposed elongated opening.

5. The spraying device of claim 1 wherein said biasing means comprises a coil spring and including a retaining member fixed within said spray body, a ring member spaced from said retaining member and being axially translatable within said spray body, said coil spring extending between said retaining member and said ring so as to urge said ring member against said nozzle assembly upon said nozzle as being inserted into said spray body and press said wing portions thereof into and against said opposed seats.

6. The spraying device of claim 4 wherein said nozzle assembly includes a nozzle having a water flow passageway extending axially therethrough and wherein said wing portions of said assembly are carried by and rotatable with respect to said nozzle such that upon said nozzle being secured in said spray body with said wing portions in said seats, said spray body is rotatable with respect to said nozzle whereby twisting of the water line during use is avoided.

7. The spraying device of claim 5 wherein said retaining member defines a cylindrical channel extending axially therethrough and upon securing said nozzle assembly in said spray body a portion of said nozzle assembly is disposed in said channel in said retaining member.

8. The spraying device of claim 6 wherein said biasing means comprises a coil spring and including a retaining member fixed within said spray body, a ring member spaced from said retaining member and being axially

translatable within said spray body, said coil spring extending between said retaining member and said ring so as to urge said ring member against said nozzle assembly upon said nozzle as being inserted into said spray body and press said wing portions thereof into and against said opposed seats.

9. A handheld water spraying device having a quick disconnect assembly for releasably securing the device to a flexible water line, said device comprising:

a spray body having a water inlet end and a water outlet end;

a valve disposed within said spray body for the selective passage of water therethrough;

a trigger carried by said spray body for opening and closing said valve;

a nozzle assembly adapted to be fixed to the water line and releasably secured in said spray body, said assembly comprising an axially extending nozzle and a pair of opposed radially projecting wing portions carried by and rotatable with respect to said nozzle;

a pair of opposed seats formed in said spray body for receiving said wing portions of said nozzle assembly and preventing rotation of said wing portions with respect to said spray body;

biasing means disposed within said spray body for urging said wing portions into and against said seats; and

an elongated opening formed in said spray body proximate said inlet end thereof for the passage of said nozzle assembly therethrough upon said wing portions thereof being aligned with said opening, said opening being aligned transversely with respect to said seats such that upon urging the water line and affixed nozzle assembly inwardly within said spray body against said biasing means so as to raise said wing portions off said seats and then rotating the line and affixed nozzle assembly approximately 90° with respect to said spray body so as to align said wing portions with said opening, said line and nozzle assembly can be axially withdrawn from said spray body thereby disengaging said spray body from the line.

10. The spraying device of claim 9 including a plurality of axially extending ribs formed on opposed interior sides of said spray body and a pair of opposed arcuate ribs transversing and cooperating with said axially extending ribs so as to define said nozzle seats and said transversely disposed elongated opening.

11. The spraying device of claim 9 wherein said biasing means comprises a coil spring and including a retaining member fixed within said spray body, a ring member spaced from said retaining member and being axially translatable within said spray body, said coil spring extending between said retaining member and said ring so as to urge said ring member against said nozzle assembly upon said nozzle as being inserted into said spray body and press said wing portions thereof into and against said opposed seats.

12. A handheld water spraying device having a quick disconnect assembly for releasably securing the device to a flexible water line, said device comprising:

a spray body having a lower portion defining a water inlet and an upper portion defining a water outlet, said upper portion threadably engaging said lower portion;

a valve mechanism carried by said upper portion of said spray body for the selective passage of water therethrough;

a nozzle assembly adapted to be fixed to the water line and releasably secured in said lower portion of said spray body for the passage of water from said line into said body, said nozzle assembly including a pair of opposed radially projecting wing portions;

a plurality of raised surfaces formed in said lower portion of said spray body and defining therein a pair of opposed seats for receiving said wing portions of said nozzle assembly and preventing rotation of said wing portions with respect to said spray body, said raised surfaces further defining an elongated opening proximate said seats for the passage of said nozzle assembly therethrough upon said wing portions thereof being aligned with said opening, said opening being aligned transversely with respect to said seats; and

biasing means disposed within said spray body for urging said wing portions into and against said seats, whereby upon urging the water line and

affixed nozzle assembly inwardly within said spray body against said biasing means so as to raise said wing portions off said seats and then rotating the line and affixed nozzle assembly approximately 90° with respect to said spray body so as to align said wing portions with said opening, said line and nozzle assembly can be axially withdrawn from said spray body thereby disengaging said spray body from the line.

13. The spraying device of claim 12 wherein said nozzle assembly includes a nozzle having a water flow passageway extending axially therethrough and a washer rotatably mounted on said nozzle, said wing portions of said nozzle assembly being defined by said washer.

14. The spraying device of claim 12 wherein said nozzle assembly includes a nozzle having a water flow passageway extending axially therethrough and wherein said wing portions of said assembly are carried by and rotatable with respect to said nozzle such that upon said nozzle being secured in said spray body with said wing portions in said seats, said spray body is rotatable with respect to said nozzle whereby twisting of the water line during use is avoided.

15. The spraying device of claim 13 wherein said biasing means comprises a coil spring and including a retaining member fixed within said spray body, a ring member spaced from said retaining member and being axially translatable within said spray body, said coil spring extending between said retaining member and said ring so as to urge said ring member against said nozzle

assembly upon said nozzle as being inserted into said spray body and press said wing portions thereof into and against said opposed seats.

16. The spraying device of claim 15 wherein said retaining member defines a cylindrical channel extending axially therethrough and upon securing said nozzle assembly in said spray body a portion of said nozzle assembly is disposed in said channel in said retaining member.

17. The spraying device of claim 16 including an annular sealing member extending about said portion of said nozzle.